

Title (en)  
Tire tread

Title (de)  
Laufflächenprofil

Title (fr)  
Profil de bande de roulement de pneumatique

Publication  
**EP 1685981 B1 20120328 (EN)**

Application  
**EP 06100892 A 20060126**

Priority  
US 64835005 P 20050128

Abstract (en)  
[origin: EP1685981A1] A tire tread (10) has at least three rows (32) of tread elements, each tread element (22) in the at rows has at least one sipe (26, 28, 30) and at least one sipe in each tread element row has a tie bar (56, 58, 60, 62, 64) therein. Each tie bar in the sipes has a volume, and the volume of the tie bar in each tread element in each row is not more than 10% different than the volume of the sipe tie bar in each tread element in any other tread row. Several of the tread rows have transverse grooves (36, 50) having groove tie bars therein.

IPC 8 full level  
**B60C 11/12** (2006.01); **B60C 11/04** (2006.01)

CPC (source: EP US)  
**B60C 11/0306** (2013.01 - EP US); **B60C 11/12** (2013.01 - EP US); **B60C 11/1263** (2013.01 - EP US); **B60C 11/13** (2013.01 - EP US); **B60C 11/1369** (2013.01 - EP US); **B60C 2011/1268** (2013.01 - EP US); **Y10S 152/03** (2013.01 - EP US)

Cited by  
EP2583839A3; EP2465706A3; EP2500186A1; US11465451B2; WO2012010342A1; EP3546249A1; JP2019167065A; CN110356176A

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1685981 A1 20060802; EP 1685981 B1 20120328**; BR PI0600114 A 20060919; CN 1810528 A 20060802; US 2006169376 A1 20060803; US 7484542 B2 20090203

DOCDB simple family (application)  
**EP 06100892 A 20060126**; BR PI0600114 A 20060116; CN 200610006887 A 20060126; US 24090405 A 20050930